

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2012 Levee Inspection Results

City of Sacramento

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

City of Sacramento

Waterway			Bank	Unit Miles
Unit No. 01 City of Sacramento			Left	3.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/11/2012 - 4/11/2012			
DWR Inspector	John Williamson			
Accompanied By	Doug Henery City of Sacramento			
	Jeff Chase City of Sacramento			
	William Roberts City of Sacramento			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1			Supplemental	USACE Erosion Survey	WS M Ma	Inspector Comments: 2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011: One new tree has fallen. [2011 Site ID: SAC_58-5_L]	°	°	11 Y
DWR ID: DWR_01_s_2012_11									
2			Earthen Levee	Operations & Maintenance Manuals	WS A Ma		°	°	22 Y
DWR ID: DWR_NA0005_01_s_2012_22									
3			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	23 Y
DWR ID: DWR_NA0005_01_s_2012_23									
4			Earthen Levee	Flood Preparedness & Training	WS A Ma		°	°	24 Y
DWR ID: DWR_NA0005_01_s_2012_24									
5	0.01	0.28	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.590653 ° -121.505288 °	38.586717 ° -121.505058 °	13 Y
DWR ID: DWR_NA0005_01_s_2012_13									
6	0.02	0.02	Earthen Levee	Encroachments	WS M En	TR : Tree or limb Inspector Comments: Remove cut limbs from waterside levee slope	38.590535 ° -121.505258 °	38.590535 ° -121.505258 °	15 Y
DWR ID: DWR_NA0005_01_s_2012_15									
7	0.14	0.14	Earthen Levee	Encroachments	WSA/W En	BU : Buildings Inspector Comments: Fenced area around State (DWR) recorder can.	38.588715 ° -121.504885 °	38.588715 ° -121.504885 °	1 Y
DWR ID: DWR_NA0005_01_s_2012_1									
8	0.22	0.22	Earthen Levee	Encroachments	WSA/W En	BU : Buildings Inspector Comments: Historical building.	38.587592 ° -121.504892 °	38.587592 ° -121.504892 °	2 Y
DWR ID: DWR_NA0005_01_s_2012_2									
9	0.37	0.73	Earthen Levee	Encroachments	CRA/W En	BU : Buildings Inspector Comments: This is the Old Sacramento flood wall. This part is a walking inspection.	38.585525 ° -121.505338 °	38.580445 ° -121.506966 °	14 Y
DWR ID: DWR_NA0005_01_s_2012_14									
10	0.76	1.15	Earthen Levee	Vegetation	CR A En	V6 : Landscaping Inspector Comments: River Walk on the crown of the levee. Waterside starts at the flood wall.	38.580055 ° -121.507180 °	38.574878 ° -121.510065 °	143 Y
DWR ID: DWR_NA0005_01_s_2012_143									
11	0.78	0.78	Earthen Levee	Encroachments	CRA/W En	BU : Buildings Inspector Comments: Embassy Suites	38.579712 ° -121.507347 °	38.579712 ° -121.507347 °	4 Y
DWR ID: DWR_NA0005_01_s_2012_4									
12	1.15	1.73	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.574805 ° -121.510157 °	38.568203 ° -121.516053 °	16 Y
DWR ID: DWR_NA0005_01_s_2012_16									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 City of Sacramento					Left	3.63	04/11/2012 04/11/2012		John Williamson
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
13	1.30	1.30	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	38.573185 ° -121.511753 °	38.573185 ° -121.511753 °	17 Y
							DWR ID: DWR_NA0005_01_s_2012_17		
14	1.35	1.35	Earthen Levee	Encroachments	CRA/W Ma	EQ : Equipment Inspector Comments: The two box cars have now replace the sheds. Since the last inspection two more box cars have been added. The total is four now.	38.572587 ° -121.512383 °	38.572587 ° -121.512383 °	3 Y
							DWR ID: DWR_NA0005_01_s_2012_3		
15	1.41	1.41	Earthen Levee	Encroachments	WSA/W Ma	PI : Pipe	38.572008 ° -121.513017 °	38.572008 ° -121.513017 °	5 Y
							DWR ID: DWR_NA0005_01_s_2012_5		
16	1.46	1.46	Earthen Levee	Encroachments	CRA/W Ma	EQ : Equipment Inspector Comments: The trains have been moved upstream to this new location.	38.571477 ° -121.513744 °	38.571477 ° -121.513744 °	9 Y
							DWR ID: DWR_NA0005_01_s_2012_9		
17	1.73	1.96	Earthen Levee	Encroachments	CRA/W Ma	EQ : Equipment Inspector Comments: Levee is oversized with railroad tracks and paved parking. This area is Miller Park.	38.568172 ° -121.516042 °	38.564882 ° -121.516265 °	6 Y
							DWR ID: DWR_NA0005_01_s_2012_6		
18	1.75	1.75	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe	38.567821 ° -121.516091 °	38.567821 ° -121.516091 °	144 Y
							DWR ID: DWR_NA0005_01_s_2012_144		
19	1.96	2.34	Earthen Levee	Encroachments	CRA/W Ma	EQ : Equipment Inspector Comments: Railroad tracks run on crown of levee, paved roadway runs along toe on waterside. This is Miller Park Marina area.	38.564900 ° -121.516253 °	38.559460 ° -121.515085 °	7 Y
							DWR ID: DWR_NA0005_01_s_2012_7		
20	2.04	2.04	Earthen Levee	Encroachments	CRA/W Ma	PI : Pipe Inspector Comments: The pipe has been repaired by the LMA. The pipe was installed by the Railroad Museum and is in talks with the CVFPB. No permit was issued for them.	38.563720 ° °	-121.515890 ° °	145
							DWR ID: DWR_NA0005_01_s_2012_145		
21	2.39	3.61	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The grasses are taller than 12".	38.558875 ° -121.514660 °	38.541427 ° -121.511233 °	18
							DWR ID: DWR_NA0005_01_s_2012_18		
22	2.39	3.61	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The grasses are taller than 12".	38.558843 ° -121.514647 °	38.541428 ° -121.511233 °	19
							DWR ID: DWR_NA0005_01_s_2012_19		
23	2.45	2.45	Earthen Levee	Vegetation	LS A/W Ma	V4 : Elderberries are blocking visibility and flood fight capability.	38.557937 ° -121.514237 °	38.557937 ° -121.514237 °	8
							DWR ID: DWR_NA0005_01_s_2012_8		
24	2.46	2.76	Earthen Levee	Vegetation	WSA/W Ob	V8 : Environmental Requirements.	38.557828 ° -121.514193 °	38.553710 ° -121.512863 °	21 Y
							DWR ID: DWR_NA0005_01_s_2012_21		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
25	2.84	2.84	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition. 2004 - New large tree pop out; city dumped fill dirt/rock into hole. 2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out 2011: A large tree has fallen and flood fighting was performed by the city on the upper levee slope. [2011 Site ID: SAC_56-6_L]	38.551578 ° -121.512336 °	38.552268 ° -121.512590 °	12 Y
DWR ID: DWR_NA0005_01_s_2012_12										
26	2.90	2.90	Earthen Levee	Encroachments	CR	M En	BU : Buildings	38.551810 ° -121.511838 °	38.551810 ° -121.511838 °	10 Y
DWR ID: DWR_NA0005_01_s_2012_10										
27	3.58	3.58	Earthen Levee	Trim / Thin Trees	LS	U Ma	T5 : Tree stumps.	38.541790 ° -121.511030 °	38.541790 ° -121.511030 °	20 Y
DWR ID: DWR_NA0005_01_s_2012_20										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_145.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_146.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Fallen tree leaning against levee slope. No uprooting damage to slope, photo taken spring 2012.	
johngw_s_20120412_689.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.14
End Levee Mile	0.14
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the I Street recorder can.

johngw_s_20120313_132.jpg



Levee Mile Report Line	8
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Historical Building with foundations and ramps on upstream and downstream sides. Fall 2011

johngw_s_20120313_133.jpg



Levee Mile Report Line	8
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A view of the south side of the building. Fall 2011

johngw_s_20120313_134.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	9
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments

Photo looking downstream from the Delta King in Old Sacramento.

johngw_s_20120313_149.jpg



Levee Mile Report Line	9
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments

The wooden board walk in Old Sacramento on top of the flood wall. Fall 2011

johngw_s_20120313_150.jpg



Levee Mile Report Line	9
Start Levee Mile	0.37
End Levee Mile	0.73
Location	Crown
Category	Earthen Levee
Item	Encroachments

The buildings are on top of the flood wall and extend out over the river. Fall 2011

johngw_s_20120313_151.jpg



*** Location**

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WS : Water Side
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	10
Start Levee Mile	0.76
End Levee Mile	1.15
Location	Crown
Category	Earthen Levee
Item	Vegetation

The start of the river walk at Tower Bridge. Fall 2011

johngw_s_20120313_152.jpg



Levee Mile Report Line	10
Start Levee Mile	0.76
End Levee Mile	1.15
Location	Crown
Category	Earthen Levee
Item	Vegetation

The start of the newest extension of the river walk. Fall 2011

johngw_s_20120313_153.jpg



Levee Mile Report Line	10
Start Levee Mile	0.76
End Levee Mile	1.15
Location	Crown
Category	Earthen Levee
Item	Vegetation

The end of the river walk. This is where the bike trails turns off the levee. Fall 2011

johngw_s_20120313_154.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	11
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Crown
Category	Earthen Levee
Item	Encroachments

Embassy Suites

johngw_s_20120313_137.jpg



Levee Mile Report Line	12
Start Levee Mile	1.15
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Waterside grasses taller than 12", photo taken spring 2012.

johngw_s_20120412_690.jpg



Levee Mile Report Line	13
Start Levee Mile	1.30
End Levee Mile	1.30
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

This is an erosion site within the USACE site, photo taken spring 2012.

johngw_s_20120412_692.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	13
Start Levee Mile	1.30
End Levee Mile	1.30
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The erosion site at levee mile 1.27 is within the USACE site at 1.25-1.35, photo taken spring 2012.

johngw_s_20120419_696.jpg



Levee Mile Report Line	14
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments

This is the replacement of the storage bins on the railroad tracks.

johngw_s_20120313_135.jpg



Levee Mile Report Line	14
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Crown
Category	Earthen Levee
Item	Encroachments

There have been an additional two box cars added to this area. Fall 2011

johngw_s_20120313_136.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	15
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The screw gate is the positive closure for the pipe. Fall 2011

johngw_s_20120313_138.jpg



Levee Mile Report Line	16
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Crown
Category	Earthen Levee
Item	Encroachments

The trains that were at 1.54 have been pulled upstream to this location. The CVFPB has asked that they be removed from the levee.

johngw_s_20120313_142.jpg



Levee Mile Report Line	16
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Crown
Category	Earthen Levee
Item	Encroachments

The two steam engines and other cars are stored on the levee. There is an agreement being worked on with the Railroad Museum and the City. This is to have the cars moved when necessary. Fall 2011

johngw_s_20120313_143.jpg



*** Location**

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**Flood Control Project Maintenance
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City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	17
Start Levee Mile	1.73
End Levee Mile	1.96
Location	Crown
Category	Earthen Levee
Item	Encroachments

Miller Park at Broadway, railroad track and parking area on levee.

johngw_s_20120313_139.jpg



Levee Mile Report Line	18
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Crown
Category	Earthen Levee
Item	Encroachments

A pipe on the landside shoulder crosses under the railroad tracks. Fall 2011

johngw_s_20120313_155.jpg



Levee Mile Report Line	18
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Crown
Category	Earthen Levee
Item	Encroachments

This appears to be a drain pipe under a driveway. It is a different pipe than the other photo for this issue. Fall 2011

johngw_s_20120313_156.jpg



*** Location**

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+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	19
Start Levee Mile	1.96
End Levee Mile	2.34
Location	Crown
Category	Earthen Levee
Item	Encroachments

Railroad tracks are on levee crown. The street is to the boat ramp.

johngw_s_20120313_140.jpg



Levee Mile Report Line	19
Start Levee Mile	1.96
End Levee Mile	2.34
Location	Crown
Category	Earthen Levee
Item	Encroachments

The Railroad museum has moved the trains to this area along Miller Park. Fall 2011

johngw_s_20120313_141.jpg



Levee Mile Report Line	24
Start Levee Mile	2.46
End Levee Mile	2.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This area is a revegetation site, photo taken spring 2012.

johngw_s_20120412_693.jpg



*** Location**

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City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	24
Start Levee Mile	2.46
End Levee Mile	2.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A photo of the revegetation site taken spring 2012.

johngw_s_20120412_694.jpg



Levee Mile Report Line	25
Start Levee Mile	2.84
End Levee Mile	2.84
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_147.jpg



Levee Mile Report Line	25
Start Levee Mile	2.84
End Levee Mile	2.84
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_148.jpg



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Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 City of Sacramento	Left	3.63	04/11/2012 04/11/2012	John Williamson

Levee Mile Report Line	26
Start Levee Mile	2.90
End Levee Mile	2.90
Location	Crown
Category	Earthen Levee
Item	Encroachments
City of Sacramento pump station on the waterside of the crown of the levee.	
johngw_s_20120313_144.jpg	



Levee Mile Report Line	27
Start Levee Mile	3.58
End Levee Mile	3.58
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
The tree stumps are slowly decomposing and need to be removed, photo taken spring 2012.	
johngw_s_20120412_695.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement